

b2
enc

a conductive bottom member;

a conductive side member; and

a conductive member arranged in a space surrounded by the bottom member and the side member, wherein the conductive member is connected to a signal line for transmission and/or reception; and

a conductive ceiling member covering all or part of the space,

wherein the conductive member extends its entire length normally of the conductive bottom member and the ceiling member.

~~7~~ 10. (Twice Amended) An antenna comprising:

b3

a conductive bottom member;

a conductive side member; and

a conductive member arranged in a space surrounded by the bottom member and the side member,

wherein the conductive member is connected to a signal line for transmission and/or reception, and

at least one of the bottom member and the side member has an opening other than an opening for the signal line.

~~8~~ 11. (Amended) An antenna comprising:

a conductive bottom member;

a conductive side member;

a conductive member arranged in a space surrounded by the bottom member and the side member,

wherein the conductive member is connected to a signal line for transmission and/or reception; and

B

B3
end

a conductive ceiling member covering all or part of the space,
wherein the ceiling member has openings.

~~12~~ 15. (Twice Amended) An antenna comprising:

a conductive bottom member;

a conductive side member; and

a conductive member arranged in a space surrounded by the bottom member and the side member,

wherein the conductive member is connected to a signal line for transmission and/or reception;

a dielectric member that has a permittivity higher than air is provided in the space; and

a conductive ceiling member covering a part of the space, and covering only a portion of the dielectric member.

B4

~~15~~ 18. (Amended) An antenna comprising:

a conductive bottom member;

a conductive side member;

a conductive member arranged in a space surrounded by the bottom member and the side member,

wherein the conductive member is connected to a signal line for transmission and/or reception;

a conductive ceiling member covering all or part of the space; and

a dielectric member having a permittivity higher than air provided in the space,

B5

B.

BS
enc wherein the dielectric member has a via hole, and the side member includes the via hole.

bb 19/22. (Twice Amended) An arrangement method of antennas, each antenna including a conductive bottom member, a conductive side member, a conductive member arranged in a space surrounded by the bottom member and the side member, wherein the conductive member is connected to a signal line for transmission and/or reception, and

a conductive ceiling member covering all or part of the space, and the conductive member extending its entire length normally of the conductive bottom member and the ceiling member,

the method comprising a step of aligning and arranging the plural antennas in a manner to produce a direction for minimizing directivity of each of the antennas on a horizontal plane.

38/42. (Amended) An antenna comprising:

a conductive bottom member;

a conductive side member;

a conductive member arranged in a space surrounded by the bottom member and the side member,

wherein the conductive member is connected to a signal line for transmission and/or reception;

a conductive ceiling member covering all or part of the space; and

at least one matching element which is arranged apart by a predetermined distance from the conductive member, wherein the matching element and the bottom member are connected to each other electrically.

39/43. (Amended) An antenna comprising:

a conductive bottom member;

a conductive side member;

a conductive member arranged in a space surrounded by the bottom member and the side member,

wherein the conductive member is connected to a signal line for transmission and/or reception;

a conductive ceiling member covering all or part of the space; and

a circuit for transmission and/or reception connected to the signal line and arranged in the space.

b7
end

B